

Claims

1. Device for monitoring the state of the substructure of fixed tracks, especially in the transition region of substructure supporting plates, characterized in that measuring bolts (6), which, in vertical recesses (7), pass freely through the track plate (2) above, are fastened at the ends (4, 5) of the substructure plates (1), which are to be monitored.

2. The device of claim 1, characterized in that the measuring bolts (6) protrude beyond the track plate (2) by a precisely specified amount.

3. The device of claims 1 or 2, characterized in that the measuring bolts (6) are accommodated before the track plate (2) is mounted in the substructure plate (1).

4. The device of claims 1 or 2, characterized in that after the fixed track is finished, the measuring bolts (6) are installed in the substructure plate (1) through boreholes subsequently provided.

5. Method for monitoring the substructure state of a fixed track with a device of one of the claims 1 to 3, characterized in that the height offset of the measuring bolts is determined by monitoring rides with a measuring vehicle with a height-detection device, especially a laser scanning device.

6. The method of claim 4, characterized in that the difference in height Δh of each measuring bolt from a previous measurement is determined during each monitoring ride.